|   | Index of Claims  |              |               |          |          |           |          |            |           |           |           |          |           |              | Ap         | Application No. |                |                 |   |           |                     |        |          |  |                 | Applicant(s) |           |                 |           |                 |           |                     |        |          |
|---|--|--------------|---------------|----------|----------|-----------|----------|------------|-----------|-----------|-----------|----------|-----------|--------------|------------|-----------------|----------------|-----------------|---|-----------|---------------------|--------|----------|--|-----------------|--------------|-----------|-----------------|-----------|-----------------|-----------|---------------------|--------|----------|
|   | . I MARTIN BERNE CHIEF C |              |               |          |          |           |          |            |           |           |           |          |           |              | 09/682,782 |                 |                |                 |   |           |                     |        |          |  | SCHAEFER ET AL. |              |           |                 |           |                 |           |                     |        |          |
| • |  |              |               |          |          |           |          |            |           |           |           |          |           |              | Examiner   |                 |                |                 |   |           |                     |        |          |  | Art Unit        |              |           |                 |           |                 |           |                     |        |          |
|   |  |              |               |          |          |           | Ш        |            |           |           |           |          |           |              |            | ١               | . lir          | nm              | v 1   | ۲V        | 11                  |        |          |  |                 |              | 28        | 321             |           |                 |           |                     |        |          |
|   |  |              |               |          |          |           |          |            |           |           |           |          |           |              |            |                 | <u> </u>       | _               | <u>, , , , , , , , , , , , , , , , , , , </u> |           |                     |        |          |  |                 |              | _         |                 | _         |                 |           |                     |        |          |
|   |  |              | 1             | Re       | ejec     | cte       | d        |            |           | -         | C         | Thr      | ou(<br>Ca | gh n<br>ncel | um<br>led  | era             | ıl)            |                 |   | N         | No                  | n-El   | lecto    | ed   |                 |              | A         | ppe             | eal       |                 |           |                     |        |          |
|   | = Allowed  |              |               |          |          | Ī         | +        | Restricted |           |           |           |          | )         | -            |            |                 | •              | Interference    |   |           | 0                   |        | Ob       | jec  | tec             | i            |           |                 |           |                 |           |                     |        |          |
| 1 |  |              |               |          |          |           |          |            | _         |           | Claim     |          |           |              |            |                 | ate            | _               |   |           | 1 [                 | Claim  |          |  | Dat             |              |           | ate             | _         |                 |           | 1                   |        |          |
| ! | Claim Date   |              |               | ate      | $\neg$   | Т         | Т        | $\dashv$   |           |           | $\neg$    | П        | Т         | П            | Ť          | ale<br>T        | Т              | Τ               | Т   | 1 F       |                     |        | $\Box$   | П  | Т               | Ť            |           | T               | Т         | Γ               |           |                     |        |          |
|   | Final  | Original     | 9/16/04       |          |          |           |          |            |           |           |           |          | Final     | Original     |            |                 |                |                 |   |           |                     |        |          | Final  | Original        |              |           |                 |           |                 |           |                     |        |          |
|   |  | $\mathbf{Z}$ | 1             |          | -        | ᅥ         | -        | $\dashv$   | ┪         | ╅         | ┥         | $\vdash$ |           | 51           | $\dashv$   | $\exists$       | Ⅎ              | +               | $\pm$   | $\pm$     | 1                   | $\pm$  | 1 t      |  | 101             | Ц            |           | _               | $\perp$   | 1               | _         | 土                   | 上      |          |
|   |  | 2            | 1             |          |          | $\Box$    | $\Box$   | $\Box$     |           | 7         | $\exists$ | F        |           | 52           | $\Box$     | _               | $\dashv$       | 7               | 4   | 4         | $\downarrow$        | +      | }        |  | 102<br>103      | $\vdash$     |           | $\dashv$        | +         | +               | $\dashv$  | +                   | ╀      | 1        |
|   |  | 3            | 7             | Н        | $\dashv$ | $\dashv$  | -        | ┪          | $\dashv$  | $\dashv$  | $\dashv$  | $\vdash$ | $\dashv$  | 53<br>54     | $\dashv$   | ┪               | ┪              | -+              | $\dashv$                                      | +         | +                   | +      | ┧┟       | -  | 104             |              | 1         | 7               | $\dashv$  | $\top$          | 1         | $\perp$             |        | <u> </u> |
|   |  | 5            | 1             |          |          | $\exists$ | ╛        |            | ゴ         |           |           |          |           | 55           |            | コ               | $\sqsupset$    | $\perp$         | 1   | $\Box$    | 1                   |        | 1 [      |  | 105             |              | $\Box$    | $\Box$          | $\exists$ | 4               | $\exists$ | Ţ                   | $\bot$ | }        |
|   |  | 6            | 7             |          |          | $\Box$    | _        | $\dashv$   | 4         | 4         | 4         | F        | _         | 56<br>57     | $\dashv$   | 4               | -              | +               | +   | $\dashv$  | +                   | +      | ┨╏       |  | 106<br>107      | H            | $\dashv$  | $\dashv$        | +         | +               | $\dashv$  | ╬                   | ╀      | 4        |
|   |  | 8            | 7             | Н        | $\dashv$ | -         | +        | -          | $\dashv$  | $\dashv$  | $\dashv$  | H        |           | 58           | $\dashv$   | $\dashv$        | $\dashv$       | +               | $\dagger$                                     | +         | ╅                   | +      | 1        |  | 108             | T            | $\exists$ | $\exists$       | 1         |                 |           | 1                   | 仜      | 1        |
|   |  | 9            | 1             |          |          |           |          |            |           |           | _         |          |           | 59           |            | $\Box$          | コ              | 1               | 1   | ユ         | 1                   | I      | ] [      |  | 109             |              | Ц         |                 | $\Box$    |                 | $\Box$    | $\bot$              | L      | ]        |
|   |  | 10           | ٧             |          |          |           | _        | 4          | _         | 4         | 4         | $\vdash$ | _         | 60           | -          | 4               | 4              | $\dashv$        | +   | $\dashv$  | +                   | +      | 1 1      |  | 110<br>111      | Н            | $\dashv$  | $\dashv$        | $\dashv$  | -+              | -         | +                   | ₽      | 4        |
|   |  | 11<br>(12    | <b>√</b>      | Н        |          | $\dashv$  | $\dashv$ | ╌┤         | $\dashv$  | $\dashv$  | $\dashv$  | -        | -         | 61<br>62     | Н          | $\dashv$        | $\dashv$       | $\dashv$        | $\dashv$                                      | 十         | +                   | +      | 1        |  | 112             | ╁            | $\dashv$  | $\neg$          | 7         | $\dashv$        | +         | $\dashv$            | t      | <u>.</u> |
|   |  | 13           | V             |          |          |           |          |            |           |           |           | E        |           | 63           |            |                 |                | コ               |   |           |                     |        | 1 [      |  | 113             |              |           |                 | $\Box$    | $\Box$          | $\Box$    | $\perp$             | I      | ]        |
|   |  | 14           | V             |          |          |           |          |            | $\exists$ | $\Box$    | 4         |          |           | 64           | Н          | $\dashv$        | 4              | 4               | 4   | 4         | 4                   |        | 4 }      |  | 114<br>115      |              |           | -1              | $\dashv$  | $\dashv$        | $\dashv$  | -                   | ┿      | 4        |
|   | <u> </u>   | 15<br>16     | 1             |          | Н        | Н         | Н        | $\dashv$   | $\dashv$  | ┽         | $\dashv$  | ⊢        | _         | 65<br>66     | Н          | Н               | ᆉ              | $\dashv$        | $\dashv$                                      | $\dashv$  | +                   | +      | ┨╏       |  | 116             | H            | Н         | $\dashv$        | 1         | $\dashv$        | +         | 十                   | +      | 1        |
|   |  | (17          | <del>Di</del> |          | Н        |           | $\dashv$ | $\dashv$   | $\dashv$  | $\dashv$  | ┪         | t        |           | 67           |            |                 | $\exists$      |                 | ╛   | 1         | 1                   |        | 1 t      |  | 117             |              |           | $\Box$          |           | $\sqsupset$     | コ         | $\perp$             | 上      | 1        |
|   |  | 18           | L             |          |          |           |          | $\Box$     |           |           |           | F        |           | 68           | П          |                 | 4              | $\neg$          | _   | 4         | $\bot$              | _      | 4 }      |  | 118             | ╀            | Н         | $\vdash$        | 4         | -               |           | +                   | ╀      | 4        |
|   |  | 19<br>20     | -             | _        | -        |           | Н        | Н          |           | $\dashv$  | 4         | ┢        |           | 69<br>70     | Н          |                 | $\dashv$       | -               | $\dashv$                                      | $\dashv$  | +                   | +      | ┧┟       |  | 119<br>120      | ╁            | Н         | $\dashv$        | $\dashv$  | +               | ┪         | ╌                   | +      | 1        |
|   | -  | 21           |               | ┝        | Н        | Н         | Н        |            | $\dashv$  |           | ┪         | 十        |           | 71           | Н          |                 | $\dashv$       | _               |   | $\exists$ | 1                   |        | <u> </u> |  | 121             |              |           |                 | $\Box$    |                 |           |                     | 土      | ]        |
| • |  | 22           |               |          |          |           |          |            |           | $\Box$    | $\Box$    | Γ        |           | 72           |            |                 |                | $\Box$          | $\Box$  | $\exists$ | _                   | 1      | ] [      |  | 122             |              |           | Ш               |           | 4               | -         | 4                   |        | -        |
|   | <u> </u>   | 23<br>24     | ╀             | -        | -        | L         | Н        | Н          |           | $\dashv$  | 4         | ⊦        |           | 73<br>74     |            | Н               | $\dashv$       | $\dashv$        | $\dashv$                                      | $\dashv$  | +                   | +      | ┥╏       |  | 123<br>124      | +            | Н         | Н               | ┥         | $\dashv$        | ᅱ         | +                   | 十      | -        |
|   | <del> </del>   | 25           | +             | $\vdash$ |          | $\vdash$  | Н        | Н          | $\dashv$  |           | $\dashv$  | H        | -         | 75           | Н          | Н               |                | $\dashv$        | ┪   | $\exists$ | 1                   |        | ] [      |  | 125             |              |           |                 |           | 口               | ╛         | 士                   |        | 1        |
|   |  | 26           |               |          |          |           |          |            |           |           | $\Box$    |          |           | 76           |            |                 |                | $\Box$          | $\Box$  | $\Box$    | $\dashv$            | $\bot$ | ] [      |  | 126             |              |           | $\sqcup$        |           | _               | 4         | 4                   | $\bot$ | 4        |
|   | <u> </u>   | 27           | 1             | ₽        | -        | $\vdash$  | $\vdash$ | Щ          | Н         | $\dashv$  | $\dashv$  | -        |           | 77<br>78     | $\vdash$   | Н               | -              | $\vdash$        | $\dashv$                                      | $\dashv$  | +                   | +      | ┨        |  | 127<br>128      | +            | $\vdash$  | ┝┥              | -         | $\dashv$        | -         | +                   | +      | 4        |
|   | -  | 28<br>29     | ╁╴            | $\vdash$ | $\vdash$ | -         | Н        | H          | Н         | H         | $\dashv$  | +        | _         | 79           |            | H               | Н              | $\vdash$        | _   | 1         | $^{\dagger}$        | $\top$ | <u> </u> |  | 129             |              |           |                 | Ⅎ         |                 | _         | 士                   | 士      | ]        |
|   |  | 30           |               | L        |          |           |          |            |           | 口         |           |          |           | 80           |            |                 |                | 口               | $\exists$                                     | $\Box$    | $\rightrightarrows$ | $\bot$ | ]        |  | 130             |              | Г         | П               | $\Box$    | $\Box$          | $\Box$    | 丁                   | Ţ      | 4        |
|   |  | 31           | F             | Г        |          |           | $\vdash$ |            | П         | $\square$ | 4         | F        |           | 81<br>82     |            | $\vdash$        | $\vdash\dashv$ | $\vdash \vdash$ |   | $\dashv$  | +                   | +-     | 4        | -  | 131             |              | -         | $\vdash \vdash$ | $\dashv$  | $\vdash \vdash$ | $\dashv$  | +                   | +      | 4        |
|   |  | 32<br>33     | +             | ╁        | $\vdash$ | $\vdash$  | $\vdash$ | H          | H         | Н         | $\dashv$  | $\vdash$ |           | 83           | $\vdash$   | -               | Н              | H               | ᅱ   | $\dashv$  | $\dashv$            | +      | ┧ ╎      |  | 133             |              |           | H               | ╛         | $\exists$       |           | $\perp$             | 土      |          |
|   |  | 34           | 上             |          |          |           |          |            |           |           | コ         | · Ľ      |           | 84           |            |                 |                |                 |   |           | コ                   | $\Box$ | ]        |  | 134             |              |           | П               |           | П               | $\Box$    | I                   | 工      | 7        |
|   |  | 35           | F             | $\vdash$ | $\vdash$ | ļ         |          | L          |           | Ц         | 4         |          |           | 85           | -          | L               |                | Н               | -   | $\dashv$  | $\dashv$            | - -    | -        | <u> </u>   | 135             |              | -         | Н               | _         | $\dashv$        | -         | +                   | +      | 4        |
|   | -  | 36           | +             | ╁        | ╁        | $\vdash$  | $\vdash$ | $\vdash$   | H         | H         | $\dashv$  | +        |           | 86<br>87     | $\vdash$   | H               | H              | H               | $\dashv$                                      | $\dashv$  | 7                   | +      | ┥ │      | <del>                                     </del> | 137             |              | $t^-$     | Н               |           | H               |           |                     | 士      | j        |
|   |  | 38           |               | T        | L        |           |          |            |           |           |           |          |           | 88           |            |                 |                |                 |   |           | $\sqsupset$         |        | ]        |  | 138             |              |           |                 |           | П               |           | $\Box$              | I      | ]        |
|   |  | 39           |               | L        |          | Г         | Γ        |            |           | Ц         | _         | Ţ        |           | 89           | <u> </u>   | L               | L              | Ц               | $\sqcup$                                      | Щ         | 4                   | +      | 4        | <u> </u>   | 139             |              | ⊢         | Н               |           | dash            | -         | $\vdash \vdash$     | +      | 4        |
|   | <u> </u>   | 40           | +             | +-       | -        | +         | +        | $\vdash$   | -         | Н         | $\dashv$  | -        |           | 90           | ╁╴         | ╁               | -              | Н               | Н   | $\vdash$  | $\dashv$            | +      | -        | $\vdash$   | 141             |              | +         | Н               |           | $\vdash \vdash$ | _         | $\vdash \vdash$     | +      | †        |
|   | <del> </del>   | 42           | +             | $\vdash$ | +        | $\vdash$  | $\vdash$ | $\vdash$   |           | Н         | $\exists$ | ŀ        | _         | 92           |            |                 |                | Ħ               |   | Ħ         |                     | 士      | 1        |  | 142             | 2            | L         |                 |           | 口               |           | 口                   | 1      | ]        |
|   |  | 43           | L             | L        | L        |           |          |            |           |           | $\Box$    |          |           | 93           |            | Г               | Г              | П               |   | П         | J                   | 4      | 4        |  | 143             |              | 1         | Н               | H         | dash            |           | -1                  | +      | 4        |
|   | <u> </u>   | 44           |               | +        | +        | ╀         | -        | -          | -         | Н         | $\dashv$  | ŀ        |           | 94<br>95     | $\vdash$   | -               | ⊢              | Н               | -   | Н         | $\dashv$            | +      | -        | <del> </del>                                     | 144             |              | -         | Н               | H         | Н               | -         | $\vdash \vdash$     | +      | 4        |
|   | -  | 45           |               | +        | +        | $\vdash$  | t        | $\vdash$   | +         | H         | $\dashv$  | ŀ        |           | 96           | 1          | t               |                |                 | H   | H         | J                   | 士      | 1        |  | 146             | 3            | L         |                 |           |                 |           |                     | 士      | ]        |
|   |  | 47           | L             | L        |          |           |          |            |           |           | $\square$ | Į        |           | 97           |            | L               |                | Г               |   |           | $\Box$              | 1      | 4        |  | 147             |              | F         | $\Box$          | L         | П               |           | $\vdash \downarrow$ |        | 4        |
|   | F  | 48           |               | F        | <u> </u> | H         | 1-       | 1          | -         | $\sqcup$  | $\dashv$  | ŀ        |           | 98<br>99     | ┾          | ╀               | -              | $\vdash$        | H   | Н         | -                   |        | -        |  | 149             |              | ╀         | $\vdash$        | -         | H               | -         | ┝╌┼                 | +      | -        |
|   | -  | 49<br>50     |               | +        | +        | ╁╌        | +        | +          | ╁╴        | ⊣         | H         | ŀ        |           | 100          | <u> </u>   | 上               | $\vdash$       | $\Box$          | $\vdash$                                      |           | ╛                   | 士      | _        |  | 150             |              | 上         | 匚               |           | ธ               |           | 口                   | 1      | j        |
|   |  |              |               |          |          |           | _        | _          | -         |           |           | _        | _         |              | _          | _               |                |                 |   |           |                     |        | _        |  |                 |              |           |                 |           |                 |           |                     | _      |          |